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Rochester General Hospital Edition

DECEMBER 2006

TOP 10 MEDICAL INNOVATIONS FOR 2007

At their Medical Innovation Summit, a panel of Cleveland clinic physicians and scientists unveiled its first-ever "Top 10 Medical Innovations" list. The following list highlights technologies which will likely have a big impact on healthcare in 2007:

10. **Convection-enhanced delivery (CED) of drugs:** This emerging drug delivery method is used to administer medication directly to the site where it is needed without exposing the rest of the body to a drug's effects.
9. **Left Ventricular Assist System (LVAS):** The first implanted ventricular assist device (VAD) that senses when to increase or decrease the rate of blood flow.
8. **Targeted cancer therapies:** Using second generation, small molecule tyrosine kinase inhibitors to block or modulate disease and provide treatments for advanced cancers.
7. **Endografting:** A minimally invasive repair technique traditionally used in cardiology and now being used to treat vascular disease.
6. **Ranibizumab:** This drug therapy inhibits uncontrolled blood vessel formation in the eye, the primary cause of age-related macular degeneration.
5. **Bronchial Thermoplasty (BT):** This therapy is used to ward off asthma attacks.
4. **Optical Coherence Tomography (OCT):** A noninvasive imaging technology used in the treatment and diagnosis of eye diseases.
3. **Neurostimulation:** Neurostimulation, such as Deep Brain Stimulation (DBS), is emerging as a significant treatment option for millions of Americans suffering from Treatment Resistant Depression and Treatment Resistant OCD.
2. **Designer Therapeutics Using Selective Receptor Antagonists:** Creating therapeutics to block receptor activation that leads to improved patients' outcomes.
1. **Cancer Vaccines:** These targeted therapies are being used to prevent cancer and treat patients more specifically according to the type of cancer they have.

If you would like any of the articles listed below that reflect these technologies please contact any library staff member.

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Kaluzy BJ. et al., "Spectral optical coherence tomography; a novel technique for cornea imaging." *Cornea*, 25(8):960-65, 2006 Sep.

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